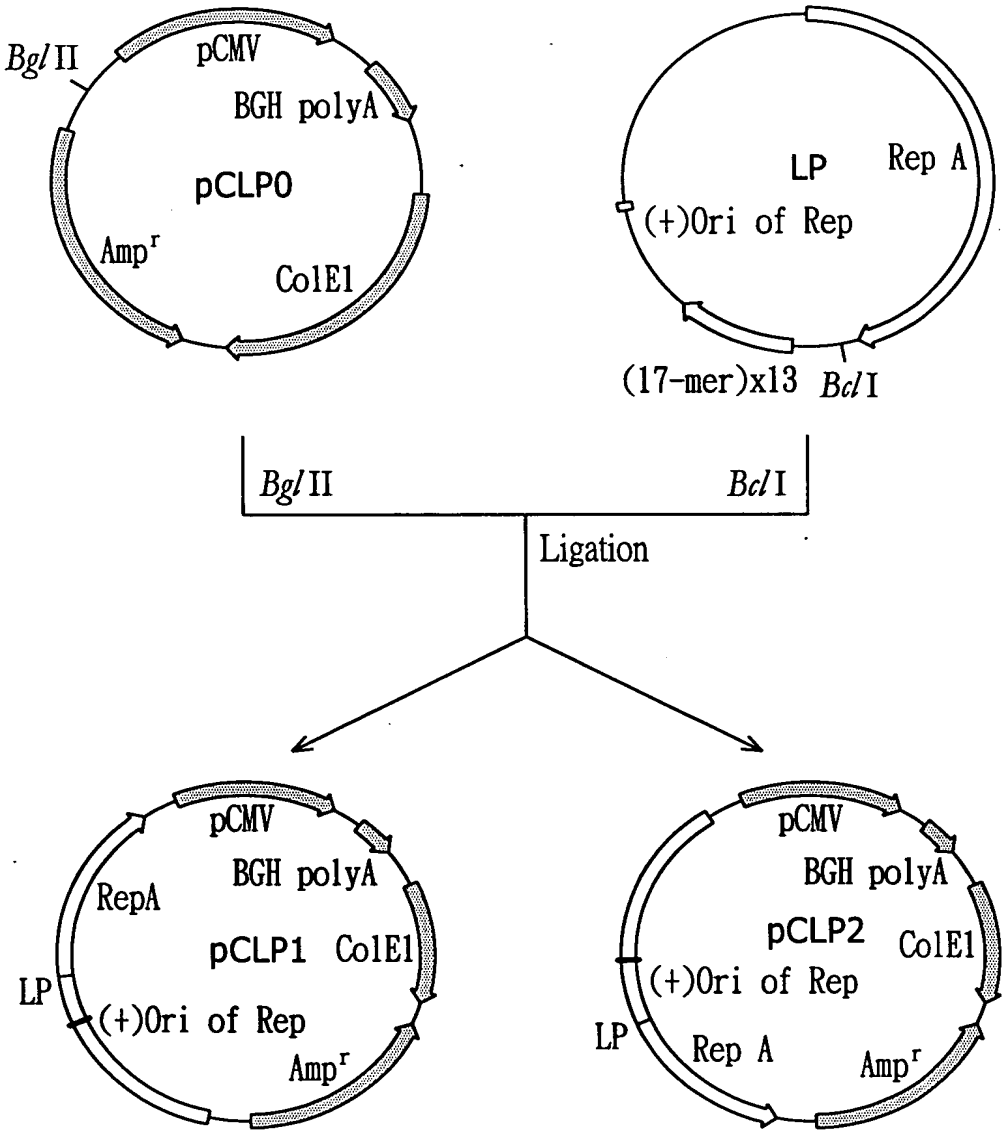
Bgl II
pCMV
BGH polyA
pCLP0
Amp^r
ColE1
LP
Rep A
(+)Ori of Rep
(17-mer)x13
Bcl I
Bgl II
Bcl I
Ligation
pCMV
BGH polyA
RepA
pCLP1
ColE1
LP
(+)Ori of Rep
Amp^r
pCMV
BGH polyA
pCLP2
ColE1
(+)Ori of Rep
LP
Rep A
Amp^r

FIG. 1

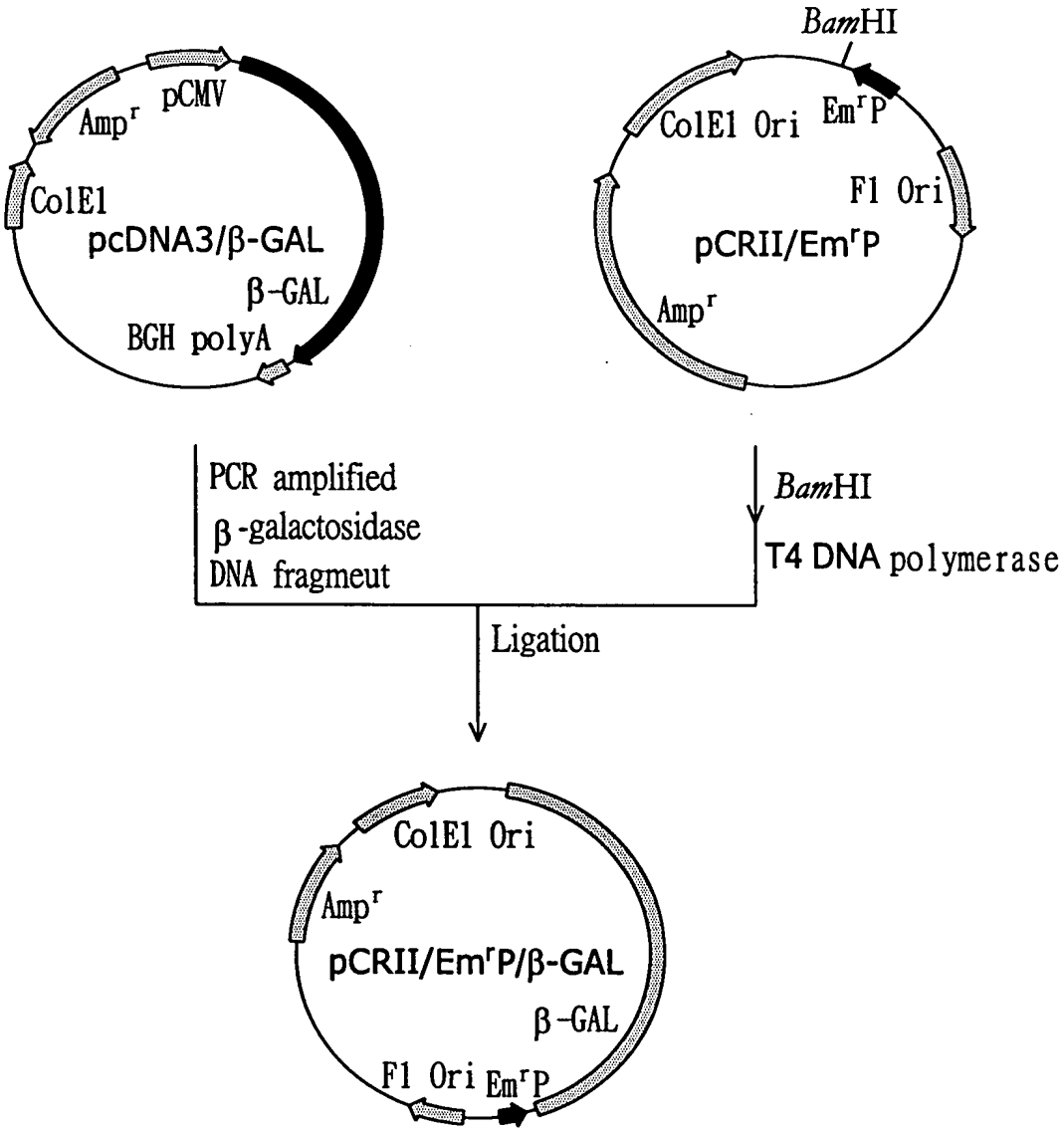
BamHI
Ampr
pCMV
ColE1
pcDNA3/β-GAL
β-GAL
BGH polyA
ColE1 Ori
EmrP
F1 Ori
pCRII/EmrP
Ampr
PCR amplified
β-galactosidase
DNA fragmeut
BamHI
T4 DNA polymerase
Ligation
ColE1 Ori
Ampr
pCRII/EmrP/β-GAL
β-GAL
F1 Ori
EmrP

FIG. 2

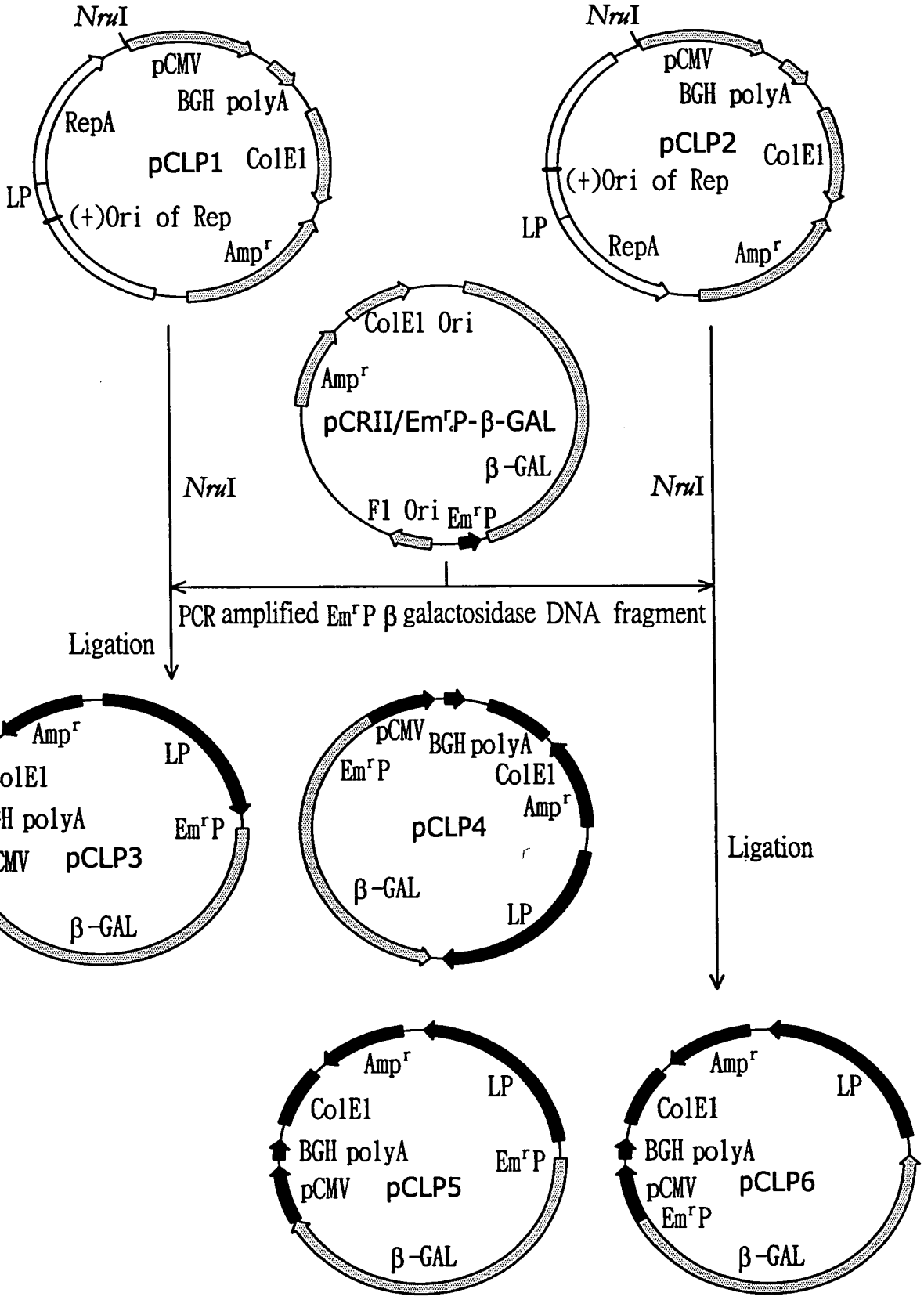
NruI
pCMV
BGH polyA
RepA
pCLP1
ColE1
LP
(+)Ori of Rep
Amp^r
NruI
pCMV
BGH polyA
pCLP2
ColE1
(+)Ori of Rep
LP
RepA
Amp^r
ColE1 Ori
Amp^r
pCRII/Em^rP-β-GAL
β-GAL
F1 Ori
Em^rP
NruI
NruI
PCR amplified Em^rP β galactosidase DNA fragment
Ligation
Ligation
Amp^r
LP
ColE1
BGH polyA
Em^rP
pCMV
pCLP3
β-GAL
pCMV
BGH polyA
Em^rP
ColE1
Amp^r
pCLP4
β-GAL
LP
Amp^r
LP
ColE1
BGH polyA
Em^rP
pCMV
pCLP5
β-GAL
Amp^r
LP
ColE1
BGH polyA
pCMV
pCLP6
Em^rP
β-GAL

FIG. 3

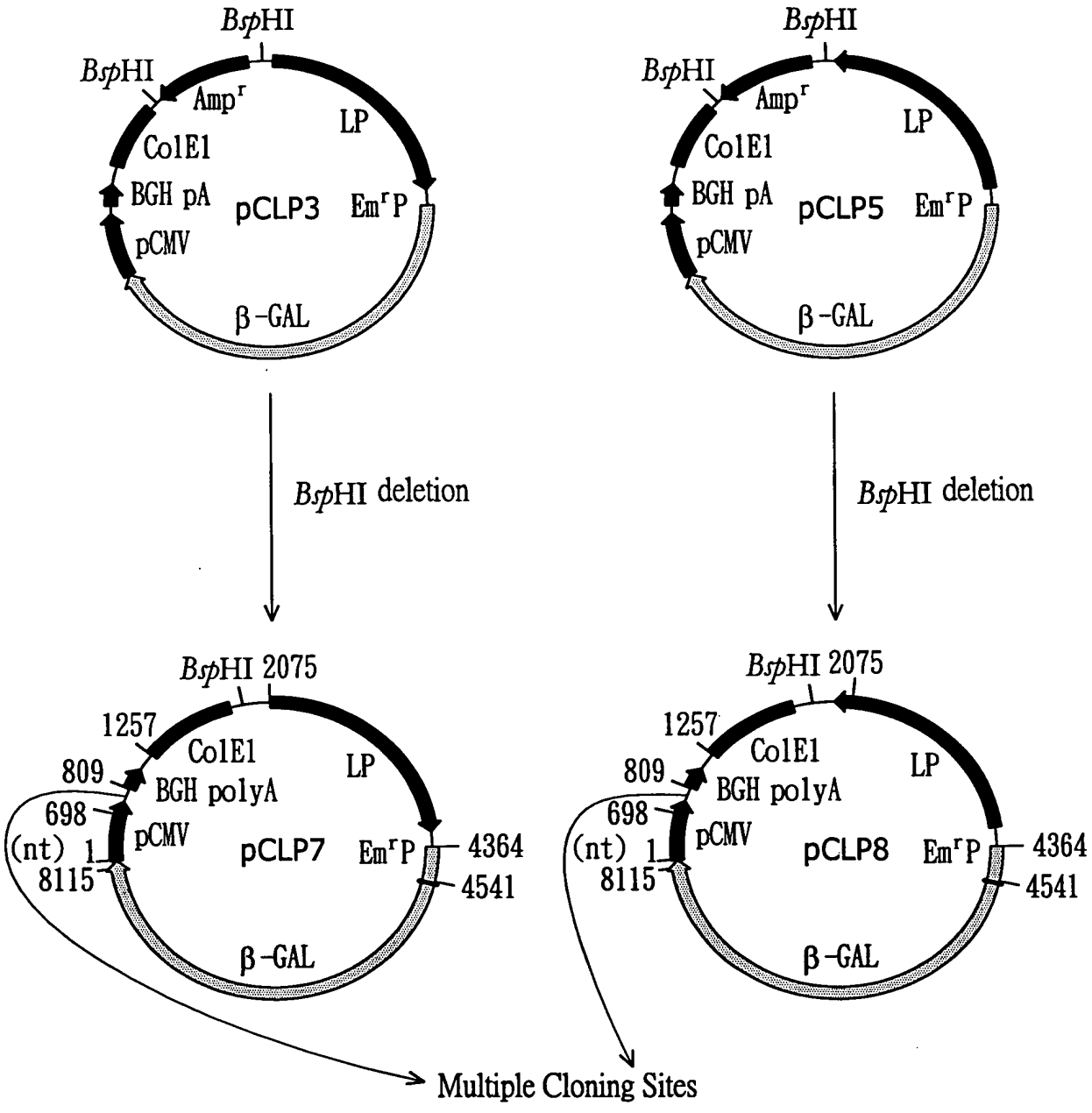
BspHI
BspHI
Amp^r
LP
ColE1
BGH pA
pCLP3
Em^rP
pCMV
β-GAL
BspHI
BspHI
Amp^r
LP
ColE1
BGH pA
pCLP5
Em^rP
pCMV
β-GAL
BspHI deletion
BspHI deletion
BspHI 2075
1257
ColE1
LP
809
BGH polyA
698
pCMV
(nt) 1
pCLP7
Em^rP
4364
8115
4541
β-GAL
BspHI 2075
1257
ColE1
LP
809
BGH polyA
698
pCMV
(nt) 1
pCLP8
Em^rP
4364
8115
4541
β-GAL
Multiple Cloning Sites
BamHI
687 GTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCT 735
Pst I EcoRV Not I Xba I
736 GCAGATATCCATCACACTGGCGGCCGCTCGAGCATGCATCTAGAGGGCC 784

FIG. 4

```
        10          20          30          40          50          60
GATGTACGGG CCAGATATAC GCGTTGACAT TGATTATTGA CTAGTTATTA ATAGTAATCA

        70          80          90         100         110         120
ATTACGGGGT CATTAGTTCA TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA

       130         140         150         160         170         180
AATGGCCCGC CTGGCTGACC GCCCAACGAC CCCCGCCCAT TGACGTCAAT AATGACGTAT

       190         200         210         220         230         240
GTTCCCATAG TAACGCCAAT AGGGACTTTC CATTGACGTC AATGGGTGGA CTATTTACGG

       250         260         270         280         290         300
TAAACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC CAAGTACGCC CCCTATTGAC

       310         320         330         340         350         360
GTCAATGACG GTAAATGGCC CGCCTGGCAT TATGCCCAGT ACATGACCTT ATGGGACTTT

       370         380         390         400         410         420
CCTACTTGGC AGTACATCTA CGTATTAGTC ATCGCTATTA CCATGGTGAT GCGGTTTTGG

       430         440         450         460         470         480
CAGTACATCA ATGGGCGTGG ATAGCGGTTT GACTCACGGG GATTTCCAAG TCTCCACCCC

       490         500         510         520         530         540
ATTGACGTCA ATGGGAGTTT GTTTTGGCAC CAAAATCAAC GGGACTTTCC AAAATGTCGT

       550         560         570         580         590         600
AACAACTCCG CCCCATTGAC GCAAATGGGC GGTAGGCGTG TACGGTGGGA GGTCTATATA

       610         620         630         640         650         660
AGCAGAGCTC TCTGGCTAAC TAGAGAACCC ACTGCTTACT GGCTTATCGA AATTAATACG

       670         680         690         700         710         720
ACTCACTATA GGGAGACCCA AGCTTGGTAC CGAGCTCGGA TCCACTAGTA ACGGCCGCCA

       730         740         750         760         770         780
GTGTGCTGGA ATTCTGCAGA TATCCATCAC ACTGGCGGCC GCTCGAGCAT GCATCTAGAG

       790         800         810         820         830         840
GGCCCTATTC TATAGTGTCA CCTAAATGCT AGAGCTCGCT GATCAGCCTC GACTGTGCCT

       850         860         870         880         890         900
TCTAGTTGCC AGCCATCTGT TGTTTGCCCC TCCCCCGTGC CTTCCTTGAC CCTGGAAGGT

       910         920         930         940         950         960
GCCACTCCCA CTGTCCTTTC CTAATAAAAT GAGGAAATTG CATCGCATTG TCTGAGTAGG

       970         980         990        1000        1010        1020
TGTCATTCTA TTCTGGGGGG TGGGGTGGGG CAGGACAGCA AGGGGGAGGA TTGGGAAGAC

      1030        1040        1050        1060        1070        1080
AATAGCAGGC ATGCTGGGGA TGCGGTGGGC TCTATGGCTT CTGAGGCGGA AAGAACCAGC

      1090        1100        1110        1120        1130        1140
TGCATTAATG AATCGGCCAA CGCGCGGGGA GAGGCGGTTT GCGTATTGGG CGCTCTTCCG

      1150        1160        1170        1180        1190        1200
CTTCCTCGCT CACTGACTCG CTGCGCTCGG TCGTTCGGCT GCGGCGAGCG GTATCAGCTC
```

FIG. 5A
FIG. 5B
FIG. 5C
FIG. 5D
FIG. 5E
FIG. 5F
FIG. 5G

FIG. 5A

```
      1210        1220        1230        1240        1250        1260
ACTCAAAGGC GGTAATACGG TTATCCACAG AATCAGGGGA TAACGCAGGA AAGAACATGT

      1270        1280        1290        1300        1310        1320
GAGCAAAAGG CCAGCAAAAG GCCAGGAACC GTAAAAAGGC CGCGTTGCTG GCGTTTTTCC

      1330        1340        1350        1360        1370        1380
ATAGGCTCCG CCCCCCTGAC GAGCATCACA AAAATCGACG CTCAAGTCAG AGGTGGCGAA

      1390        1400        1410        1420        1430        1440
ACCCGACAGG ACTATAAAGA TACCAGGCGT TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC

      1450        1460        1470        1480        1490        1500
CTGTTCCGAC CCTGCCGCTT ACCGGATACC TGTCCGCCTT TCTCCCTTCG GGAAGCGTGG

      1510        1520        1530        1540        1550        1560
CGCTTTCTCA ATGCTCACGC TGTAGGTATC TCAGTTCGGT GTAGGTCGTT CGCTCCAAGC

      1570        1580        1590        1600        1610        1620
TGGGCTGTGT GCACGAACCC CCCGTTCAGC CCGACCGCTG CGCCTTATCC GGTAACTATC

      1630        1640        1650        1660        1670        1680
GTCTTGAGTC CAACCCGGTA AGACACGACT TATCGCCACT GGCAGCAGCC ACTGGTAACA

      1690        1700        1710        1720        1730        1740
GGATTAGCAG AGCGAGGTAT GTAGGCGGTG CTACAGAGTT CTTGAAGTGG TGGCCTAACT

      1750        1760        1770        1780        1790        1800
ACGGCTACAC TAGAAGGACA GTATTTGGTA TCTGCGCTCT GCTGAAGCCA GTTACCTTCG

      1810        1820        1830        1840        1850        1860
GAAAAAGAGT TGGTAGCTCT TGATCCGGCA AACAAACCAC CGCTGGTAGC GGTGGTTTTT

      1870        1880        1890        1900        1910        1920
TTGTTTGCAA GCAGCAGATT ACGCGCAGAA AAAAAGGATC TCAAGAAGAT CCTTTGATCT

      1930        1940        1950        1960        1970        1980
TTTCTACGGG GTCTGACGCT CAGTGGAACG AAAACTCACG TTAAGGGATT TTGGTCATGA

      1990        2000        2010        2020        2030        2040
GCGGATACAT ATTTGAATGT ATTTAGAAAA ATAAACAAAT AGGGGTTCCG CGCACATTTC

      2050        2060        2070        2080        2090        2100
CCCGAAAAGT GCCACCTGAC GTCGACGGAT CGGGAGATCA ACGGTAAATC CGTTGGCATA

      2110        2120        2130        2140        2150        2160
TCCCTTTTTT GTTGTCAGCT TGCTGACTTC TGATACAGGT TTTAGCATTA CTCCAATTTA

      2170        2180        2190        2200        2210        2220
TTTGGAGTGT AAGTGCACAT TATCATGTAG TGCGCATTAT CATGTAGTGC GCATTATCAT

      2230        2240        2250        2260        2270        2280
GTAGTGCGCA TTATCATGTA GTGCGCATTA TCATGTAGTG CGCATTATCA TGTAGTGCGC

      2290        2300        2310        2320        2330        2340
ATTATCATGT AGTGCGCACA TTATCATGTA CATTATCATG TAGTGCGCAT TATCATGTAG

      2350        2360        2370        2380        2390        2400
TGCGCACATT ATCATGTAGT GCGCATTATC ATGTAGTGCG CATTATCATG TAGTGCGCAC
```

FIG. 5B

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      2410        2420        2430        2440        2450        2460
TTACACACAA CATGAAGTTG TGTTGTGCTA AACCCATCAA AACCTGCATC AGATTTCGCG

      2470        2480        2490        2500        2510        2520
TTGCTCAAAC GTAACTGACT TGCGTCAGTT TGGAACATTC AAAAATAAAT AAGTTCAGTC

      2530        2540        2550        2560        2570        2580
GCTAGCTCCT TCGAACTTTT TTATTTTTGA ACGTTAATTT TAAAGGCTCT TATTTGCGTT

      2590        2600        2610        2620        2630        2640
CTAAGCGATT TTAGCTAACA GTTAGCTATC TAACTGTCTG TCAACGGTAA ATCGACTTAG

      2650        2660        2670        2680        2690        2700
AGGGGCTTAT TGAGCCTTAC AGGCGATATT AGCCCCTCTT GGAGGCTTTA AGGAGTTGAT

      2710        2720        2730        2740        2750        2760
AGACTAGACA ATACCAAAAG CCTGACGTCT TGGAAAACAA GCCCTTGTTT TCCCGAGCCC

      2770        2780        2790        2800        2810        2820
AGCGGCGGCA AGCGTTACGG TCCAGCTGGT TCAGCTGGTC AGTGTGGCTG AAAGCCACGG

      2830        2840        2850        2860        2870        2880
TTTAAAAAAA GCAGTTCAGC GGTTTTTGCT GATCTGCTTT TTGGGGTTTA AAAACGCAAT

      2890        2900        2910        2920        2930        2940
TTTTGGCGTT TTCTTCTTAT CTTGATACTA TTAGCAACAA CTAGTTTTTT AAAATCAAGC

      2950        2960        2970        2980        2990        3000
TTGATTAGGC TTAATTGGGC TTGTATCCAT TGATTTTATA GGCTTTTGGT GTATTATTAG

      3010        3020        3030        3040        3050        3060
GGTTATAAAT TGGTTGAAAG AAAGACAAAA TAAAAACCCA CGTGCAAATT CCTAGTTTGG

      3070        3080        3090        3100        3110        3120
CCGCTCGGAA CACGTGAGTT GATTATCATT TGCGATTTAT AGCCTATTCT AGGGGAAAAG

      3130        3140        3150        3160        3170        3180
CCCTATGATG TCAAGGTTAT AAGCTTATTG AAAAAGATAG TCAGCTCCTT CACGTGGATA

      3190        3200        3210        3220        3230        3240
AACTGGAGGA GCTTTTTATG TCAGAAATTT TTGAAGATAA AACTGAAAAT GGCAAAGTTA

      3250        3260        3270        3280        3290        3300
GACCTTGGCG AGAACGGAAG ATTGAAAATG TGCGCTATGC CGAATATTTG GCAATCTTAG

      3310        3320        3330        3340        3350        3360
AATTTAAACG GGCACATGAT GTACGGGGTT GTGGTGAAGT TTTGCGTTTT CGTAAGATTG

      3370        3380        3390        3400        3410        3420
GCGAGCACTT AAAACTTTAT CAAACGTGGT TTTGTCATAA ACGATTGTGT CCATTGTGTA

      3430        3440        3450        3460        3470        3480
ATTGGAGAAG GAGCATGAAA AACTCGAGCC AGTTAAAACA AATTATTGCG GAAGCAGTTG

      3490        3500        3510        3520        3530        3540
CAAGAGAGCC TAAAGGACGG TTTTTGTTTT TAACTTTAAC CGTTAAAAAC GCTCATTCAG

      3550        3560        3570        3580        3590        3600
CAGAGGAGTT AAAAGTGTCT TTAAGAGCTT TGACTAAAGC CTTTAATAAG CTAACTCGCT
```

FIG. 5C

```
      3610        3620        3630        3640        3650        3660
ATAAAAAAGT GACTAAAAAT TTATTGGGTT ATTTACGTTC AACGGAAATT ACCGTTAATG

      3670        3680        3690        3700        3710        3720
AACAAGACGG GTCATATAAT CAACACTTGC ATGTGTTGCT GTTTGTAAAA TCAAGTTATT

      3730        3740        3750        3760        3770        3780
TTAAGAATTC AAATAATTAT TTAGCACAAG CAGAATGGGC AAAATTATGG CAAAAAGCCT

      3790        3800        3810        3820        3830        3840
TGAAAGTTGA TTATGAGCCT GTGGTGCATG TGCAGGCTGT TAAAGCTAAC AAACGTAAAG

      3850        3860        3870        3880        3890        3900
GAACTGACTC TTTGCAAGCT AGTGCCGAAG AAACGGCGAA ATACGAGGTA AAATCAGCTG

      3910        3920        3930        3940        3950        3960
ATTATATGAC GGCTGATGAT GAGCGTAATT TGGTGGTGAT TAAAAATTTG GAGTATGCCT

      3970        3980        3990        4000        4010        4020
TAGCTGGAAC ACGACAAATC AGCTATGGTG GATTATTAAA GCAAATTAAG CAAGATTTGA

      4030        4040        4050        4060        4070        4080
AACTTGAAGA TGTTGAGAAT GGTGATTTAG TTCATGTTGG CGATGAAGAT TACACCAAAG

      4090        4100        4110        4120        4130        4140
AGCAAATGGA AGCTGCGGAA GAAGTTGTCG CAAAATGGGA TTTTAATAAA CAAAATTATT

      4150        4160        4170        4180        4190        4200
TTATTTGGTA AAGAGAATGT CAGGATATGA TCTCCCGATC CCCTATGGTC GACTCTCAGT

      4210        4220        4230        4240        4250        4260
ACAATCTGCT CTGATGCCGC ATAGTTAAGC CAGTATCTGC TCCCTGCTTG TGTGTTGGAG

      4270        4280        4290        4300        4310        4320
GTCGCTGAGT AGTGCGCGAG CAAAATTTAA GCTACAACAA GGCAAGGCTT GACCGACAAT

      4330        4340        4350        4360        4370        4380
TGCATGAAGA ATCTGCTTAG GGTTAGGCGT TTTGCGCTGC TTCGTTAGAA GCAAACTAAG

      4390        4400        4410        4420        4430        4440
AGTGTGTTGA GTAGTGCAGT ATCTTAAAAT TTTGTATAAT AGGAATTGAA GTTAAATTAG

      4450        4460        4470        4480        4490        4500
ATGCTAAAAA TTTGTAATTA AGAAGGAGTG ATTACATGAT TGGCAGCCAG TCTCCGGGCA

      4510        4520        4530        4540        4550        4560
ATTAATGAAC TTGGACATGG TTGACGACCC GGTCTTTGCA AGCCGAATTC GACCACACTG

      4570        4580        4590        4600        4610        4620
GCGGCCGTTA CTAGGGTATC GATCCGATAA AAAGTTAGGC GACGGCTTTG CCCTGGTGCC

      4630        4640        4650        4660        4670        4680
AGCAGACGGT AAGGTCTACG CGCCATTTGC CGGTACTGTC CGCCAGCTGG CCAAGACCCG

      4690        4700        4710        4720        4730        4740
GCACTCGATC GTCCTGGAAA ATGAACATGG GGTCTTGGTC TTGATTCACC TTGGCCTGGG

      4750        4760        4770        4780        4790        4800
CACGGTCAAA TTAAACGGGA CTGGCTTTGT CAGCTATGTT GAAGAGGGCA GCCAGGTAGA
```

FIG. 5D

```
      4810        4820        4830        4840        4850        4860
AGCCGGCCAG CAGATCCTGG AATTCTGGGA CCCGGCGATC AAGCAGGCCA AGCTGGACGA

      4870        4880        4890        4900        4910        4920
CACGGTAATC GTGACCGTCA TCAACAGCGA AACTTTCACA AATAGCCAGA TGCTCTTGCC

      4930        4940        4950        4960        4970        4980
GATCGGCCAC AGCGTCCAAG CCCTGGATGA TGTATTCAAG TTAGAAGGGA AGAATTAGAA

      4990        5000        5010        5020        5030        5040
AATGAGCAAT AAGTTAGTAA AAGAAAAAAG AGTTGACCAG GCAGACCTGG CCTGGCTGAC

      5050        5060        5070        5080        5090        5100
TGACCCGGAA GTTTACGAAG TCAATACAAT TCCCCCGCAC TCCGACCATG AGTCCTTCCA

      5110        5120        5130        5140        5150        5160
AAGCCAGGAA GAACTGGAGG AGGGCAAGTC CAGTTTAGTG CAGTCCCTGG ACGGGGACTG

      5170        5180        5190        5200        5210        5220
GCTGATTGAC TACGCTGAAA ACGGCCAGGG ACCAGTCAAC TTCTATGCAG AAGACTTTGA

      5230        5240        5250        5260        5270        5280
CGATAGCAAT TTTAAGTCAG TCAAAGTACC CGGCAACCTG GAACTGCAAG GCTTTGGCCA

      5290        5300        5310        5320        5330        5340
GCCCCAGTAT GTCAACGTCC AATATCCATG GGACGGCAGT GAGGAGATTT TCCCGCCCCA

      5350        5360        5370        5380        5390        5400
AATTCCAAGC AAAAATCCGC TCGCTTCTTA TGTCAGATAC TTTGACCTGG ATGAAGCTTT

      5410        5420        5430        5440        5450        5460
CTGGGACAAG GAAGTCAGCT TGAAGTTTGA CGGGGCGGCA ACAGCCATCT ATGTCTGGCT

      5470        5480        5490        5500        5510        5520
GAACGGCCAC TTCGTCGGCT ACGGGGAAGA CTCCTTTACC CCAAGCGAGT TTATGGTTAC

      5530        5540        5550        5560        5570        5580
CAAGTTCCTC AAGAAAGAAA ATAACCGCCT GGCAGTGGCT CTCTACAAGT ATTCTTCCGC

      5590        5600        5610        5620        5630        5640
CTCCTGGCTG GAAGACCAGG ACTTCTGGCG CATGTCTGGT TTGTTCAGAT CAGTGACTCT

      5650        5660        5670        5680        5690        5700
TCAGGCCAAG CCGCGTCTGC ACTTGGAGGA CCTTAAGCTT ACGGCCAGCT TGACCGATAA

      5710        5720        5730        5740        5750        5760
CTACCAAAAA GGAAAGCTGG AAGTCGAAGC CAATATTGCC TACCGCTTGC CAAATGCCAG

      5770        5780        5790        5800        5810        5820
CTTTAAGCTG GAAGTGCGGG ATAGTGAAGG TGACTTGGTT GCTGAAAAGC TGGGCCCAAT

      5830        5840        5850        5860        5870        5880
CAGAAGCGAG CAGCTGGAAT TCACTCTGGC TGATTTGCCA GTAGCTGCCT GGAGCGCGGA

      5890        5900        5910        5920        5930        5940
AAAGCCTAAC CTTTACCAGG TCCGCCTGTA TTTATACCAG GCAGGCAGCC TCTTAGAGGT

      5950        5960        5970        5980        5990        6000
TAGCCGGCAG GAAGTGGGTT TCCGCAACTT TGAACTAAAA GACGGGATTA TGTACCTTAA
```

FIG. 5E

```
      6010        6020        6030        6040        6050        6060
CGGCCAGCGG ATCGTCTTCA AGGGGGCCAA CCGGCACGAA TTTGACAGTA AGTTGGGTCG

      6070        6080        6090        6100        6110        6120
GGCTATCACG GAAGAGGATA TGATCTGGGA CATCAAGACC ATGAAGCGAA GCAACATCAA

      6130        6140        6150        6160        6170        6180
TGCTGTCCGC TGCTCTCACT ACCCGAACCA GTCCCTCTTT TACCGGCTCT GTGACAAGTA

      6190        6200        6210        6220        6230        6240
CGGCCTTTAC GTCATTGATG AAGCTAACCT GGAAAGCCAC GGCACCTGGG AAAAAGTGGG

      6250        6260        6270        6280        6290        6300
GGGGCACGAA GATCCTAGCT TCAATGTTCC AGGCGATGAC CAGCATTGGC TGGGAGCCAG

      6310        6320        6330        6340        6350        6360
CTTATCCCGG GTGAAGAACA TGATGGCTCG GGACAAGAAC CATGCTTCAA TCCTAATCTG

      6370        6380        6390        6400        6410        6420
GTCTTTAGGC AATGAGTCTT ACGCCGGCAC TGTCTTTGCC CAAATGGCTG ATTACGTCCG

      6430        6440        6450        6460        6470        6480
GAAGGCTGAT CCGACCCGGG TTCAGCACTA TGAAGGGGTG ACCCACAACC GGAAGTTTGA

      6490        6500        6510        6520        6530        6540
CGACGCCACC CAGATTGAAA GCCGGATGTA TGCTCCGGCC AAGGTAATTG AAGAATACTT

      6550        6560        6570        6580        6590        6600
GACCAATAAA CCAGCCAAGC CATTTATCTC AGTTGAATAC GCTCACGCCA TGGGCAACTC

      6610        6620        6630        6640        6650        6660
CGTCGGTGAC CTGGCCGCCT ACACGGCCCT GGAAAAATAC CCCCACTACC AGGGCGGCTT

      6670        6680        6690        6700        6710        6720
CATCTGGGAC TGGATTGACC AAGGACTGGA AAAAGACGGG CACCTGCTTT ATGGGGGCGA

      6730        6740        6750        6760        6770        6780
CTTCGATGAC CGGCCAACCG ACTATGAATT CTGCGGGAAC GGCCTGGTCT TTGCTGACCG

      6790        6800        6810        6820        6830        6840
GACTGAATCG CCGAAACTGG CTAATGTCAA GGCCCTTTAC GCCAACCTTA AGTTAGAAGT

      6850        6860        6870        6880        6890        6900
AAAAGATGGG CAGCTCTTCC TCAAAAACGA CAATTTATTT ACCAACAGCT CATCTTACTA

      6910        6920        6930        6940        6950        6960
CTTCTTGACT AGTCTTTTGG TCGATGGCAA GTTGACCTAC CAGAGCCGGC CTCTGACCTT

      6970        6980        6990        7000        7010        7020
TGGCCTGGAG CCTGGCGAAT CCGGGACCTT TGCCCTGCCT TGGCCGGAAG TCGCTGATGA

      7030        7040        7050        7060        7070        7080
AAAAGGGGAG GTCGTCTACC GGGTAACGGC CCACTTAAAA GAAGACTTGC CTTGGGCGGA

      7090        7100        7110        7120        7130        7140
TGAGGGCTTC ACTGTGGCTG AAGCAGAAGA AGTAGCTCAA AAGCTGCCGG AATTTAAGCC

      7150        7160        7170        7180        7190        7200
GGAAGGGCGG CCAGATTTAG TTGATTCCGA CTACAACCTA GGCCTGAAAG GAAATAACTT
```

FIG. 5F

```
      7210        7220        7230        7240        7250        7260
CCAAATTCTC TTCTCCAAGG TCAAGGGCTG GCCGGTTTCC CTCAAGTATG CCGGTAGGGA

      7270        7280        7290        7300        7310        7320
ATACTTGAAG CGGCTGCCGG AATTTACCTT CTGGCGGGCC CTGACGGACA ACGACCGGGG

      7330        7340        7350        7360        7370        7380
AGCTGGTTAC GGCTATGATC TGGCCCGGTG GGAAAATGCC GGCAAGTATG CCCGCTTGAA

      7390        7400        7410        7420        7430        7440
AGACATCAGC TGCGAGGTCA AGGAAGACTC CGTTTTGGTC AAGACTGCCT TTACGTTGCC

      7450        7460        7470        7480        7490        7500
TGTCGCCTTA AAGGGTGATT TAACCGTGAC CTATGAAGTC GATGGACGGG GCAAGATTGC

      7510        7520        7530        7540        7550        7560
TGTAACAGCT GACTTCCCAG GCGCGGAAGA AGCTGGTCTC TTGCCAGCCT TTGGCTTGAA

      7570        7580        7590        7600        7610        7620
CCTGGCCCTG CCAAAAGAAC TGACCGATTA CCGCTACTAT GGTCTGGGAC CTAATGAGAG

      7630        7640        7650        7660        7670        7680
CTACCCAGAC CGCTTGGAAG GTAATTACCT GGGCATCTAC CAGGGAGCGG TAAAAAAGAA

      7690        7700        7710        7720        7730        7740
CTTTAGCCCA TATCGTCCGC AGGAAACGGG CAACCGGAGC AAGGTTCGCT GGTACCAGCT

      7750        7760        7770        7780        7790        7800
CTTTGATGAA AAGGGCGGCT TGGAATTTAC GGCCAATGGG GCAGACTTGA ACTTGTCTGC

      7810        7820        7830        7840        7850        7860
TTTGCCATAT TCTGCCGCCC AAATTGAAGC AGCGGACCAC GCTTTTGAAC TGACTAACAA

      7870        7880        7890        7900        7910        7920
TTACACTTGG GTTAGAGCCT TAAGCGCCCA GATGGGGGTC GGCGGGGATG ACTCCTGGGG

      7930        7940        7950        7960        7970        7980
GCAGAAGGTC CACCCGGAAT TCTGCCTGGA TGCTCAAAAA GCCCGCCAGC TTCGCCTGGT

      7990        8000        8010        8020        8030        8040
GATTCAGCCC CTTTTACTAA AATAAATGCT ACAATTGACT TAACAGGATG AAATTTTAGT

      8050        8060        8070        8080        8090        8100
AAAAGCAAAG CGAGTGAGGA AGATGGCAAC GATCAGAGAA GTGCCAAGGC AGCCGGCGTG

      8110        8120        8130        8140        8150        8160
TCGCTAGCGA CGGTC..... .......... .......... .......... ..........
```

FIG. 5G

```
        10          20          30          40          50          60
GATGTACGGG CCAGATATAC GCGTTGACAT TGATTATTGA CTAGTTATTA ATAGTAATCA

        70          80          90         100         110         120
ATTACGGGGT CATTAGTTCA TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA

       130         140         150         160         170         180
AATGGCCCGC CTGGCTGACC GCCCAACGAC CCCCGCCCAT TGACGTCAAT AATGACGTAT

       190         200         210         220         230         240
GTTCCCATAG TAACGCCAAT AGGGACTTTC CATTGACGTC AATGGGTGGA CTATTTACGG

       250         260         270         280         290         300
TAAACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC CAAGTACGCC CCCTATTGAC

       310         320         330         340         350         360
GTCAATGACG GTAAATGGCC CGCCTGGCAT TATGCCCAGT ACATGACCTT ATGGGACTTT

       370         380         390         400         410         420
CCTACTTGGC AGTACATCTA CGTATTAGTC ATCGCTATTA CCATGGTGAT GCGGTTTTGG

       430         440         450         460         470         480
CAGTACATCA ATGGGCGTGG ATAGCGGTTT GACTCACGGG GATTTCCAAG TCTCCACCCC

       490         500         510         520         530         540
ATTGACGTCA ATGGGAGTTT GTTTTGGCAC CAAAATCAAC GGGACTTTCC AAAATGTCGT

       550         560         570         580         590         600
AACAACTCCG CCCCATTGAC GCAAATGGGC GGTAGGCGTG TACGGTGGGA GGTCTATATA

       610         620         630         640         650         660
AGCAGAGCTC TCTGGCTAAC TAGAGAACCC ACTGCTTACT GGCTTATCGA AATTAATACG

       670         680         690         700         710         720
ACTCACTATA GGGAGACCCA AGCTTGGTAC CGAGCTCGGA TCCACTAGTA ACGGCCGCCA

       730         740         750         760         770         780
GTGTGCTGGA ATTCTGCAGA TATCCATCAC ACTGGCGGCC GCTCGAGCAT GCATCTAGAG

       790         800         810         820         830         840
GGCCCTATTC TATAGTGTCA CCTAAATGCT AGAGCTCGCT GATCAGCCTC GACTGTGCCT

       850         860         870         880         890         900
TCTAGTTGCC AGCCATCTGT TGTTTGCCCC TCCCCCGTGC CTTCCTTGAC CCTGGAAGGT

       910         920         930         940         950         960
GCCACTCCCA CTGTCCTTTC CTAATAAAAT GAGGAAATTG CATCGCATTG TCTGAGTAGG

       970         980         990        1000        1010        1020
TGTCATTCTA TTCTGGGGGG TGGGGTGGGG CAGGACAGCA AGGGGGAGGA TTGGGAAGAC

      1030        1040        1050        1060        1070        1080
AATAGCAGGC ATGCTGGGGA TGCGGTGGGC TCTATGGCTT CTGAGGCGGA AAGAACCAGC

      1090        1100        1110        1120        1130        1140
TGCATTAATG AATCGGCCAA CGCGCGGGGA GAGGCGGTTT GCGTATTGGG CGCTCTTCCG

      1150        1160        1170        1180        1190        1200
CTTCCTCGCT CACTGACTCG CTGCGCTCGG TCGTTCGGCT GCGGCGAGCG GTATCAGCTC
```

FIG. 6A

FIG. 6A
FIG. 6B
FIG. 6C
FIG. 6D
FIG. 6E
FIG. 6F
FIG. 6G

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      1210        1220        1230        1240        1250        1260
ACTCAAAGGC GGTAATACGG TTATCCACAG AATCAGGGGA TAACGCAGGA AAGAACATGT

      1270        1280        1290        1300        1310        1320
GAGCAAAAGG CCAGCAAAAG GCCAGGAACC GTAAAAAGGC CGCGTTGCTG GCGTTTTTCC

      1330        1340        1350        1360        1370        1380
ATAGGCTCCG CCCCCCTGAC GAGCATCACA AAAATCGACG CTCAAGTCAG AGGTGGCGAA

      1390        1400        1410        1420        1430        1440
ACCCGACAGG ACTATAAAGA TACCAGGCGT TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC

      1450        1460        1470        1480        1490        1500
CTGTTCCGAC CCTGCCGCTT ACCGGATACC TGTCCGCCTT TCTCCCTTCG GGAAGCGTGG

      1510        1520        1530        1540        1550        1560
CGCTTTCTCA ATGCTCACGC TGTAGGTATC TCAGTTCGGT GTAGGTCGTT CGCTCCAAGC

      1570        1580        1590        1600        1610        1620
TGGGCTGTGT GCACGAACCC CCCGTTCAGC CCGACCGCTG CGCCTTATCC GGTAACTATC

      1630        1640        1650        1660        1670        1680
GTCTTGAGTC CAACCCGGTA AGACACGACT TATCGCCACT GGCAGCAGCC ACTGGTAACA

      1690        1700        1710        1720        1730        1740
GGATTAGCAG AGCGAGGTAT GTAGGCGGTG CTACAGAGTT CTTGAAGTGG TGGCCTAACT

      1750        1760        1770        1780        1790        1800
ACGGCTACAC TAGAAGGACA GTATTTGGTA TCTGCGCTCT GCTGAAGCCA GTTACCTTCG

      1810        1820        1830        1840        1850        1860
GAAAAAGAGT TGGTAGCTCT TGATCCGGCA AACAAACCAC CGCTGGTAGC GGTGGTTTTT

      1870        1880        1890        1900        1910        1920
TTGTTTGCAA GCAGCAGATT ACGCGCAGAA AAAAAGGATC TCAAGAAGAT CCTTTGATCT

      1930        1940        1950        1960        1970        1980
TTTCTACGGG GTCTGACGCT CAGTGGAACG AAAACTCACG TTAAGGGATT TTGGTCATGA

      1990        2000        2010        2020        2030        2040
GCGGATACAT ATTTGAATGT ATTTAGAAAA ATAAACAAAT AGGGGTTCCG CGCACATTTC

      2050        2060        2070        2080        2090        2100
CCCGAAAAGT GCCACCTGAC GTCGACGGAT CGGGAGATCA TATCCTGACA TTCTCTTTAC

      2110        2120        2130        2140        2150        2160
CAAATAAAAT AATTTTGTTT ATTAAAATCC CATTTTGCGA CAACTTCTTC CGCAGCTTCC

      2170        2180        2190        2200        2210        2220
ATTTGCTCTT TGGTGTAATC TTCATCGCCA ACATGAACTA AATCACCATT CTCAACATCT

      2230        2240        2250        2260        2270        2280
TCAAGTTTCA AATCTTGCTT AATTTGCTTT AATAATCCAC CATAGCTGAT TTGTCGTGTT

      2290        2300        2310        2320        2330        2340
CCAGCTAAGG CATACTCCAA ATTTTTAATC ACCACCAAAT TACGCTCATC ATCAGCCGTC

      2350        2360        2370        2380        2390        2400
ATATAATCAG CTGATTTTAC CTCGTATTTC GCCGTTTCTT CGGCACTAGC TTGCAAAGAG
```

FIG. 6B

```
      2410        2420        2430        2440        2450        2460
TCAGTTCCTT TACGTTTGTT AGCTTTAACA GCCTGCACAT GCACCACAGG CTCATAATCA

      2470        2480        2490        2500        2510        2520
ACTTTCAAGG CTTTTTGCCA TAATTTTGCC CATTCTGCTT GTGCTAAATA ATTATTTGAA

      2530        2540        2550        2560        2570        2580
TTCTTAAAAT AACTTGATTT TACAAACAGC AACACATGCA AGTGTTGATT ATATGACCCG

      2590        2600        2610        2620        2630        2640
TCTTGTTCAT TAACGGTAAT TTCCGTTGAA CGTAAATAAC CCAATAAATT TTTAGTCACT

      2650        2660        2670        2680        2690        2700
TTTTTATAGC GAGTTAGCTT ATTAAAGGCT TTAGTCAAAG CTCTTAAAGA CACTTTTAAC

      2710        2720        2730        2740        2750        2760
TCCTCTGCTG AATGAGCGTT TTTAACGGTT AAAGTTAAAA ACAAAAACCG TCCTTTAGGC

      2770        2780        2790        2800        2810        2820
TCTCTTGCAA CTGCTTCCGC AATAATTTGT TTTAACTGGC TCGAGTTTTT CATGCTCCTT

      2830        2840        2850        2860        2870        2880
CTCCAATTAC ACAATGGACA CAATCGTTTA TGACAAAACC ACGTTTGATA AAGTTTTAAG

      2890        2900        2910        2920        2930        2940
TGCTCGCCAA TCTTACGAAA ACGCAAAACT TCACCACAAC CCCGTACATC ATGTGCCCGT

      2950        2960        2970        2980        2990        3000
TTAAATTCTA AGATTGCCAA ATATTCGGCA TAGCGCACAT TTTCAATCTT CCGTTCTCGC

      3010        3020        3030        3040        3050        3060
CAAGGTCTAA CTTTGCCATT TTCAGTTTTA TCTTCAAAAA TTTCTGACAT AAAAAGCTCC

      3070        3080        3090        3100        3110        3120
TCCAGTTTAT CCACGTGAAG GAGCTGACTA TCTTTTTCAA TAAGCTTATA ACCTTGACAT

      3130        3140        3150        3160        3170        3180
CATAGGGCTT TTCCCCTAGA ATAGGCTATA AATCGCAAAT GATAATCAAC TCACGTGTTC

      3190        3200        3210        3220        3230        3240
CGAGCGGCCA AACTAGGAAT TTGCACGTGG GTTTTTATTT TGTCTTTCTT TCAACCAATT

      3250        3260        3270        3280        3290        3300
TATAACCCTA ATAATACACC AAAAGCCTAT AAAATCAATG GATACAAGCC CAATTAAGCC

      3310        3320        3330        3340        3350        3360
TAATCAAGCT TGATTTTAAA AAACTAGTTG TTGCTAATAG TATCAAGATA AGAAGAAAAC

      3370        3380        3390        3400        3410        3420
GCCAAAAAATT GCGTTTTTAA ACCCCAAAAA GCAGATCAGC AAAAACCGCT GAACTGCTTT

      3430        3440        3450        3460        3470        3480
TTTTAAACCG TGGCTTTCAG CCACACTGAC CAGCTGAACC AGCTGGACCG TAACGCTTGC

      3490        3500        3510        3520        3530        3540
CGCCGCTGGG CTCGGGAAAA CAAGGGCTTG TTTTCCAAGA CGTCAGGCTT TTGGTATTGT

      3550        3560        3570        3580        3590        3600
CTAGTCTATC AACTCCTTAA AGCCTCCAAG AGGGGCTAAT ATCGCCTGTA AGGCTCAATA
```

FIG. 6C

```
      3610        3620        3630        3640        3650        3660
AGCCCCTCTA AGTCGATTTA CCGTTGACAG ACAGTTAGAT AGCTAACTGT TAGCTAAAAT

      3670        3680        3690        3700        3710        3720
CGCTTAGAAC GCAAATAAGA GCCTTTAAAA TTAACGTTCA AAAATAAAAA AGTTCGAAGG

      3730        3740        3750        3760        3770        3780
AGCTAGCGAC TGAACTTATT TATTTTTGAA TGTTCCAAAC TGACGCAAGT CAGTTACGTT

      3790        3800        3810        3820        3830        3840
TGAGCAACGC GAAATCTGAT GCAGGTTTTG ATGGGTTTAG CACAACACAA CTTCATGTTG

      3850        3860        3870        3880        3890        3900
TGTGTAAGTG CGCACTACAT GATAATGCGC ACTACATGAT AATGCGCACT ACATGATAAT

      3910        3920        3930        3940        3950        3960
GTGCGCACTA CATGATAATG CGCACTACAT GATAATGTAC ATGATAATGT GCGCACTACA

      3970        3980        3990        4000        4010        4020
TGATAATGCG CACTACATGA TAATGCGCAC TACATGATAA TGCGCACTAC ATGATAATGC

      4030        4040        4050        4060        4070        4080
GCACTACATG ATAATGCGCA CTACATGATA ATGCGCACTA CATGATAATG TGCACTTACA

      4090        4100        4110        4120        4130        4140
CTCCAAATAA ATTGGAGTAA TGCTAAAACC TGTATCAGAA GTCAGCAAGC TGACAACAAA

      4150        4160        4170        4180        4190        4200
AAAGGGATAT GCCAACGGAT TTACCGTTGA TCTCCCGATC CCCTATGGTC GACTCTCAGT

      4210        4220        4230        4240        4250        4260
ACAATCTGCT CTGATGCCGC ATAGTTAAGC CAGTATCTGC TCCCTGCTTG TGTGTTGGAG

      4270        4280        4290        4300        4310        4320
GTCGCTGAGT AGTGCGCGAG CAAAATTTAA GCTACAACAA GGCAAGGCTT GACCGACAAT

      4330        4340        4350        4360        4370        4380
TGCATGAAGA ATCTGCTTAG GGTTAGGCGT TTTGCGCTGC TTCGTTAGAA GCAAACTAAG

      4390        4400        4410        4420        4430        4440
AGTGTGTTGA GTAGTGCAGT ATCTTAAAAT TTTGTATAAT AGGAATTGAA GTTAAATTAG

      4450        4460        4470        4480        4490        4500
ATGCTAAAAA TTTGTAATTA AGAAGGAGTG ATTACATGAT TGGCAGCCAG TCTCCGGGCA

      4510        4520        4530        4540        4550        4560
ATTAATGAAC TTGGACATGG TTGACGACCC GGTCTTTGCA AGCCGAATTC GACCACACTG

      4570        4580        4590        4600        4610        4620
GCGGCCGTTA CTAGGGTATC GATCCGATAA AAAGTTAGGC GACGGCTTTG CCCTGGTGCC

      4630        4640        4650        4660        4670        4680
AGCAGACGGT AAGGTCTACG CGCCATTTGC CGGTACTGTC CGCCAGCTGG CCAAGACCCG

      4690        4700        4710        4720        4730        4740
GCACTCGATC GTCCTGGAAA ATGAACATGG GGTCTTGGTC TTGATTCACC TTGGCCTGGG

      4750        4760        4770        4780        4790        4800
CACGGTCAAA TTAAACGGGA CTGGCTTTGT CAGCTATGTT GAAGAGGGCA GCCAGGTAGA
```

FIG. 6D

```
      4810        4820        4830        4840        4850        4860
AGCCGGCCAG CAGATCCTGG AATTCTGGGA CCCGGCGATC AAGCAGGCCA AGCTGGACGA

      4870        4880        4890        4900        4910        4920
CACGGTAATC GTGACCGTCA TCAACAGCGA AACTTTCACA AATAGCCAGA TGCTCTTGCC

      4930        4940        4950        4960        4970        4980
GATCGGCCAC AGCGTCCAAG CCCTGGATGA TGTATTCAAG TTAGAAGGGA AGAATTAGAA

      4990        5000        5010        5020        5030        5040
AATGAGCAAT AAGTTAGTAA AAGAAAAAAG AGTTGACCAG GCAGACCTGG CCTGGCTGAC

      5050        5060        5070        5080        5090        5100
TGACCCGGAA GTTTACGAAG TCAATACAAT TCCCCCGCAC TCCGACCATG AGTCCTTCCA

      5110        5120        5130        5140        5150        5160
AAGCCAGGAA GAACTGGAGG AGGGCAAGTC CAGTTTAGTG CAGTCCCTGG ACGGGGACTG

      5170        5180        5190        5200        5210        5220
GCTGATTGAC TACGCTGAAA ACGGCCAGGG ACCAGTCAAC TTCTATGCAG AAGACTTTGA

      5230        5240        5250        5260        5270        5280
CGATAGCAAT TTTAAGTCAG TCAAAGTACC CGGCAACCTG GAACTGCAAG GCTTTGGCCA

      5290        5300        5310        5320        5330        5340
GCCCCAGTAT GTCAACGTCC AATATCCATG GGACGGCAGT GAGGAGATTT TCCCGCCCCA

      5350        5360        5370        5380        5390        5400
AATTCCAAGC AAAAATCCGC TCGCTTCTTA TGTCAGATAC TTTGACCTGG ATGAAGCTTT

      5410        5420        5430        5440        5450        5460
CTGGGACAAG GAAGTCAGCT TGAAGTTTGA CGGGGCGGCA ACAGCCATCT ATGTCTGGCT

      5470        5480        5490        5500        5510        5520
GAACGGCCAC TTCGTCGGCT ACGGGGAAGA CTCCTTTACC CCAAGCGAGT TTATGGTTAC

      5530        5540        5550        5560        5570        5580
CAAGTTCCTC AAGAAAGAAA ATAACCGCCT GGCAGTGGCT CTCTACAAGT ATTCTTCCGC

      5590        5600        5610        5620        5630        5640
CTCCTGGCTG GAAGACCAGG ACTTCTGGCG CATGTCTGGT TTGTTCAGAT CAGTGACTCT

      5650        5660        5670        5680        5690        5700
TCAGGCCAAG CCGCGTCTGC ACTTGGAGGA CCTTAAGCTT ACGGCCAGCT TGACCGATAA

      5710        5720        5730        5740        5750        5760
CTACCAAAAA GGAAAGCTGG AAGTCGAAGC CAATATTGCC TACCGCTTGC CAAATGCCAG

      5770        5780        5790        5800        5810        5820
CTTTAAGCTG GAAGTGCGGG ATAGTGAAGG TGACTTGGTT GCTGAAAAGC TGGGCCCAAT

      5830        5840        5850        5860        5870        5880
CAGAAGCGAG CAGCTGGAAT TCACTCTGGC TGATTTGCCA GTAGCTGCCT GGAGCGCGGA

      5890        5900        5910        5920        5930        5940
AAAGCCTAAC CTTTACCAGG TCCGCCTGTA TTTATACCAG GCAGGCAGCC TCTTAGAGGT

      5950        5960        5970        5980        5990        6000
TAGCCGGCAG GAAGTGGGTT TCCGCAACTT TGAACTAAAA GACGGGATTA TGTACCTTAA
```

FIG. 6E

```
      6010        6020        6030        6040        6050        6060
CGGCCAGCGG ATCGTCTTCA AGGGGGCCAA CCGGCACGAA TTTGACAGTA AGTTGGGTCG

      6070        6080        6090        6100        6110        6120
GGCTATCACG GAAGAGGATA TGATCTGGGA CATCAAGACC ATGAAGCGAA GCAACATCAA

      6130        6140        6150        6160        6170        6180
TGCTGTCCGC TGCTCTCACT ACCCGAACCA GTCCCTCTTT TACCGGCTCT GTGACAAGTA

      6190        6200        6210        6220        6230        6240
CGGCCTTTAC GTCATTGATG AAGCTAACCT GGAAAGCCAC GGCACCTGGG AAAAAGTGGG

      6250        6260        6270        6280        6290        6300
GGGGCACGAA GATCCTAGCT TCAATGTTCC AGGCGATGAC CAGCATTGGC TGGGAGCCAG

      6310        6320        6330        6340        6350        6360
CTTATCCCGG GTGAAGAACA TGATGGCTCG GGACAAGAAC CATGCTTCAA TCCTAATCTG

      6370        6380        6390        6400        6410        6420
GTCTTTAGGC AATGAGTCTT ACGCCGGCAC TGTCTTTGCC CAAATGGCTG ATTACGTCCG

      6430        6440        6450        6460        6470        6480
GAAGGCTGAT CCGACCCGGG TTCAGCACTA TGAAGGGGTG ACCCACAACC GGAAGTTTGA

      6490        6500        6510        6520        6530        6540
CGACGCCACC CAGATTGAAA GCCGGATGTA TGCTCCGGCC AAGGTAATTG AAGAATACTT

      6550        6560        6570        6580        6590        6600
GACCAATAAA CCAGCCAAGC CATTTATCTC AGTTGAATAC GCTCACGCCA TGGGCAACTC

      6610        6620        6630        6640        6650        6660
CGTCGGTGAC CTGGCCGCCT ACACGGCCCT GGAAAAATAC CCCCACTACC AGGGCGGCTT

      6670        6680        6690        6700        6710        6720
CATCTGGGAC TGGATTGACC AAGGACTGGA AAAAGACGGG CACCTGCTTT ATGGGGGCGA

      6730        6740        6750        6760        6770        6780
CTTCGATGAC CGGCCAACCG ACTATGAATT CTGCGGGAAC GGCCTGGTCT TTGCTGACCG

      6790        6800        6810        6820        6830        6840
GACTGAATCG CCGAAACTGG CTAATGTCAA GGCCCTTTAC GCCAACCTTA AGTTAGAAGT

      6850        6860        6870        6880        6890        6900
AAAAGATGGG CAGCTCTTCC TCAAAAACGA CAATTTATTT ACCAACAGCT CATCTTACTA

      6910        6920        6930        6940        6950        6960
CTTCTTGACT AGTCTTTTGG TCGATGGCAA GTTGACCTAC CAGAGCCGGC CTCTGACCTT

      6970        6980        6990        7000        7010        7020
TGGCCTGGAG CCTGGCGAAT CCGGGACCTT TGCCCTGCCT TGGCCGGAAG TCGCTGATGA

      7030        7040        7050        7060        7070        7080
AAAAGGGGAG GTCGTCTACC GGGTAACGGC CCACTTAAAA GAAGACTTGC CTTGGGCGGA

      7090        7100        7110        7120        7130        7140
TGAGGGCTTC ACTGTGGCTG AAGCAGAAGA AGTAGCTCAA AAGCTGCCGG AATTTAAGCC

      7150        7160        7170        7180        7190        7200
GGAAGGGCGG CCAGATTTAG TTGATTCCGA CTACAACCTA GGCCTGAAAG GAAATAACTT
```

FIG. 6F

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      7210        7220        7230        7240        7250        7260
CCAAATTCTC TTCTCCAAGG TCAAGGGCTG GCCGGTTTCC CTCAAGTATG CCGGTAGGGA

      7270        7280        7290        7300        7310        7320
ATACTTGAAG CGGCTGCCGG AATTTACCTT CTGGCGGGCC CTGACGGACA ACGACCGGGG

      7330        7340        7350        7360        7370        7380
AGCTGGTTAC GGCTATGATC TGGCCCGGTG GGAAAATGCC GGCAAGTATG CCCGCTTGAA

      7390        7400        7410        7420        7430        7440
AGACATCAGC TGCGAGGTCA AGGAAGACTC CGTTTTGGTC AAGACTGCCT TTACGTTGCC

      7450        7460        7470        7480        7490        7500
TGTCGCCTTA AAGGGTGATT TAACCGTGAC CTATGAAGTC GATGGACGGG GCAAGATTGC

      7510        7520        7530        7540        7550        7560
TGTAACAGCT GACTTCCCAG GCGCGGAAGA AGCTGGTCTC TTGCCAGCCT TTGGCTTGAA

      7570        7580        7590        7600        7610        7620
CCTGGCCCTG CCAAAAGAAC TGACCGATTA CCGCTACTAT GGTCTGGGAC CTAATGAGAG

      7630        7640        7650        7660        7670        7680
CTACCCAGAC CGCTTGGAAG GTAATTACCT GGGCATCTAC CAGGGAGCGG TAAAAAAGAA

      7690        7700        7710        7720        7730        7740
CTTTAGCCCA TATCGTCCGC AGGAAACGGG CAACCGGAGC AAGGTTCGCT GGTACCAGCT

      7750        7760        7770        7780        7790        7800
CTTTGATGAA AAGGGCGGCT TGGAATTTAC GGCCAATGGG GCAGACTTGA ACTTGTCTGC

      7810        7820        7830        7840        7850        7860
TTTGCCATAT TCTGCCGCCC AAATTGAAGC AGCGGACCAC GCTTTTGAAC TGACTAACAA

      7870        7880        7890        7900        7910        7920
TTACACTTGG GTTAGAGCCT TAAGCGCCCA GATGGGGGTC GGCGGGGATG ACTCCTGGGG

      7930        7940        7950        7960        7970        7980
GCAGAAGGTC CACCCGGAAT TCTGCCTGGA TGCTCAAAAA GCCCGCCAGC TTCGCCTGGT

      7990        8000        8010        8020        8030        8040
GATTCAGCCC CTTTTACTAA AATAAATGCT ACAATTGACT TAACAGGATG AAATTTTAGT

      8050        8060        8070        8080        8090        8100
AAAAGCAAAG CGAGTGAGGA AGATGGCAAC GATCAGAGAA GTGCCAAGGC AGCCGGCGTG

      8110        8120        8130        8140        8150        8160
TCGCTAGCGA CGGTC..... .......... .......... .......... ..........
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FIG. 6G

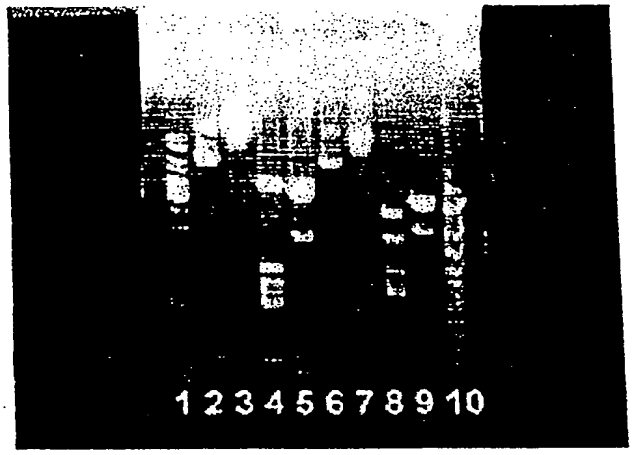

FIG. 7A

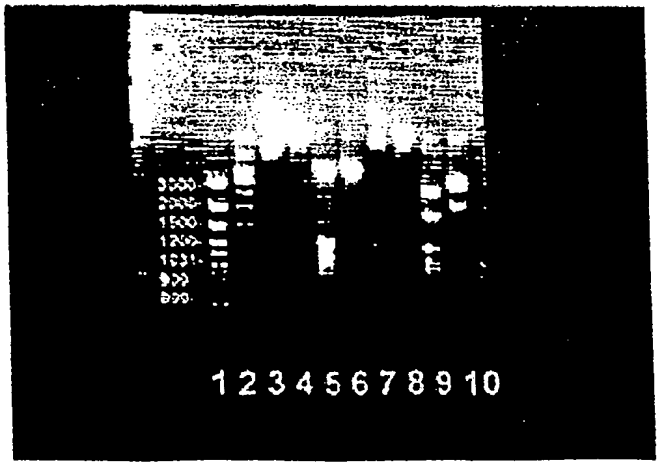

FIG. 7B